

FIGURE 1

| | |
|---|---|
| 1/1 | 31/11 |
| GAC GAA AGG GCC TCG TGA TAC GCC TAT TTT | TAT AGG TTA ATG TCA TGA TAA TAA TGG TTT |
| 61/21 | 91/31 |
| CTT AGA CGT CAG GTG GCA CTT TTC GGG GAA | ATG TGC GCG GAA CCC CTA TTT GTT TAT TTT |
| 121/41 | 151/51 |
| TCT AAA TAC ATT CAA ATA TGT ATC CGC TCA | TGA GAC AAT AAC CCT GAT AAA TGC TTC AAT |
| 181/61 | 211/71 |
| AAT ATT GAA AAA GGA AGA GTA TGA GTA TTC | AAC ATT TCC GTG TCG CCC TTA TTC CCT TTT |
| 241/81 | 271/91 |
| TTG CGG CAT TTT GCC TTC CTG TTT TTG CTC | ACC CAG AAA CGC TGG TGA AAG TAA AAG ATG |
| 301/101 | 331/111 |
| CTG AAG ATC AGT TGG GTG CAC GAG TGG GTT | ACA TCG AAC TGG ATC TCA ACA GCG GTA AGA |
| 361/121 | 391/131 |
| TCC TTG AGA GTT TTC GCC CCG AAG AAC GTT | CTC CAA TGA TGA GCA CTT TTA AAG TTC TGC |
| 421/141 | 451/151 |
| TAT GTG GCG CGG TAT TAT CCC GTA TTG ACG | CCG GGC AAG AGC AAC TGG GTC GCC GCA TAC |
| 481/161 | 511/171 |
| ACT ATT CTC AGA ATG ACT TGG TTG AGT ACT | CAC CAG TCA CAG AAA AGC ATC TTA CGG ATG |
| 541/181 | 571/191 |
| GCA TGA CAG TAA GAG AAT TAT GCA GTG CTG | CCA TAA CCA TGA GTG ATA ACA CTG CGG CCA |
| 601/201 | 631/211 |
| ACT TAC TTC TGA CAA CGA TCG GAG GAC CGA | AGG AGC TAA CCG CTT TTT TGC ACA ACA TGG |
| 661/221 | 691/231 |
| GGG ATC ATG TAA CTC GCC TTG ATC GTT GGG | AAC CGG AGC TGA ATG AAG CCA TAC CAA ACG |
| 721/241 | 751/251 |
| ACG AGC GTG ACA CCA CGA TGC CTG TAG CAA | TGG CAA CAA CGT TGC GCA AAC TAT TAA CTG |
| 781/261 | 811/271 |
| GCG AAC TAC TTA CTC TAG CTT CCC GGC AAC | AAT TAA TAG ACT GGA TGG AGG CGG ATA AAG |
| 841/281 | 871/291 |
| TTG CAG GAC CAC TTC TGC GCT CGG CCC TTC | CGG CTG GCT GGT TTA TTG CTG ATA AAT CTG |
| 901/301 | 931/311 |
| GAG CCG GTG AGC GTG GGT CTC GCG GTA TCA | TTG CAG CAC TGG GGC CAG ATG GTA AGC CCT |
| 961/321 | 991/331 |
| CCC GTA TCG TAG TTA TCT ACA CGA CGG GGA | GTC AGG CAA CTA TGG ATG AAC GAA ATA GAC |
| 1021/341 | 1051/351 |
| AGA TCG CTG AGA TAG GTG CCT CAC TGA TTA | AGC ATT GGT AAC TGT CAG ACC AAG TTT ACT |
| 1081/361 | 1111/371 |
| CAT ATA TAC TTT AGA TTG ATT TAA AAC TTC | ATT TTT AAT TTA AAA GGA TCT AGG TGA AGA |
| 1141/381 | 1171/391 |
| TCC TTT TTG ATA ATC TCA TGA CCA AAA TCC | CTT AAC GTG AGT TTT CGT TCC ACT GAG CCG |
| 1201/401 | 1231/411 |
| CAG ACC CCG TAG AAA AGA TCA AAG GAT CTT | CTT GAG ATC CTT TTT TTC TGC GCG TAA TCT |
| 1261/421 | 1291/431 |
| GCT GCT TGC AAA CAA AAA AAC CAC CGC TAC | CAG CGG TGG TTT GTT TGC CGG ATC AAG AGC |
| 1321/441 | 1351/451 |
| TAC CAA CTC TTT TTC CGA AGG TAA CTG GCT | TCA GCA GAG CGC AGA TAC CAA ATA CTG TCC |
| 1381/461 | 1411/471 |
| TTC TAG TGT AGC CGT AGT TAG GCC ACC ACT | TCA AGA ACT CTG TAG CAC CGC CTA CAT ACC |
| 1441/481 | 1471/491 |
| TCG CTC TGC TAA TCC TGT TAC CAG TGG CTG | CTG CCA GTG GCG ATA AGT CGT GTC TTA CCG |
| 1501/501 | 1531/511 |
| GGT TGG ACT CAA GAC GAT AGT TAC CGG ATA | AGG CGC AGC GGT CGG GCT GAA CGG GGG GTT |
| 1561/521 | 1591/531 |
| CGT GCA CAC AGC CCA GCT TGG AGC GAA CGA | CCT ACA CCG AAC TGA GAT ACC TAC AGC GTG |
| 1621/541 | 1651/551 |
| AGC TAT GAG AAA GCG CCA CGC TTC CCG AAG | GGA GAA AGG CGG ACA GGT ATC CGG TAA GCG |

FIGURE 2A

FOOTNOTES - 2225560

3061/1021
CTG GGA AAA CCC TGG CGT TAC CCA ACT TAA TCG CCT TGC AGC ACA TCC CCC TTT CGC CAG
3121/1041
CTG GCG TAA TAG CGA AGA GGC CCG CAC CGA TCG CCC TTC CCA ACA GTT GCG CAG CCT GAA
3181/1061
TGG CGA ATG GCG CCT GAT GCG GTA TTT TCT CCT TAC GCA TCT GTG CGG TAT TTC ACA CCG
3241/1081
CAT ATG GTG CAC TCT CAG TAC AAT CTG CTC TGA TGC CGC ATA GTT AAG CCA GCC CCG ACA
3301/1101
CCC GCC AAC ACC CGC TGA CGC GCC CTG ACG GGC TTG TCT GCT CCC GGC ATC CGC TTA CAG
3361/1121
ACA AGC TGT GAC CGT CTC CGG GAG CTG CAT GTG TCA GAG GTT TTC ACC GTC ATC ACC GAA
3421/1141
ACG CGC

3091/1031

3151/1051

3211/1071

3271/1091

3331/1111

3391/1131

FIGURE 2C

Insert 1

1/1 31/11
 CAT CTC ATC CAC AAT GTC CAC AAA GAG GAG CAC GCT CAT GCC CAC AAC
 his leu ile his asn val his lys glu glu his ala his ala his asn

Insert 2

1/1 31/11
 CAT AAC CAT AAC CAT AAC CAT AAC CAT AAC CAT AAC
 his asn his asn his asn his asn his asn his asn

Insert 3

1/1 31/11
 CAT GAT GAT CAT GAT GAT CAT GAT GAT CAT GAT GAT CAT GAT GAT GAT GAT
 his asp asp his asp asp his asp asp his asp asp his asp asp his asp asp

Insert 4

1/1 31/11
 CAT GAG GAG CAT GAG GAG CAT GAG GAG CAT GAG GAG CAT GAG GAG CAT GAG GAG
 his glu glu his glu glu his glu glu his glu glu his glu glu his glu glu

Insert 5

1/1 31/11
 CAT GAT GAG CAT GAT GAG CAT GAG AAC CAT GAG AAC CAT GAG GAT CAT GAG GAT
 his asp glu his asp glu his glu asn his glu asn his glu asp his glu asp

FIGURE 3

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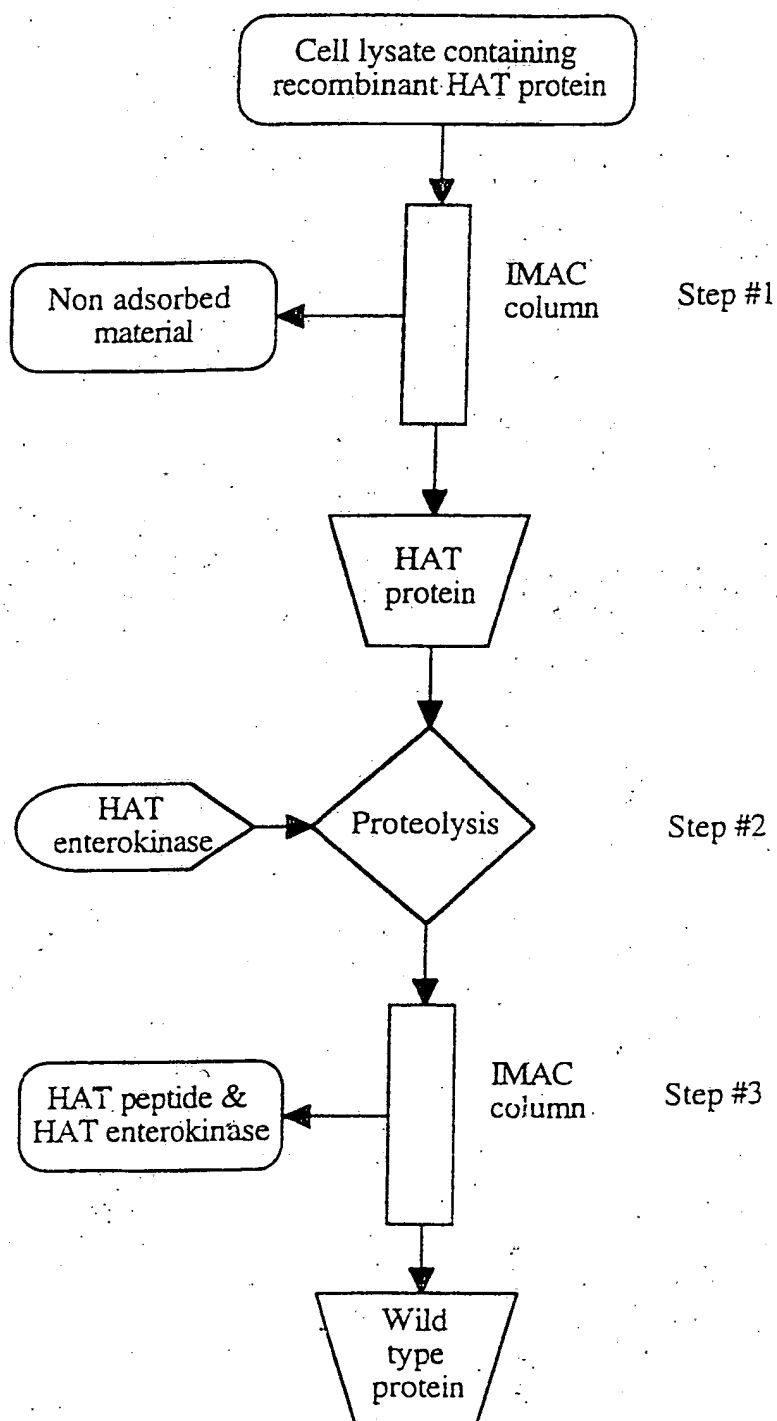
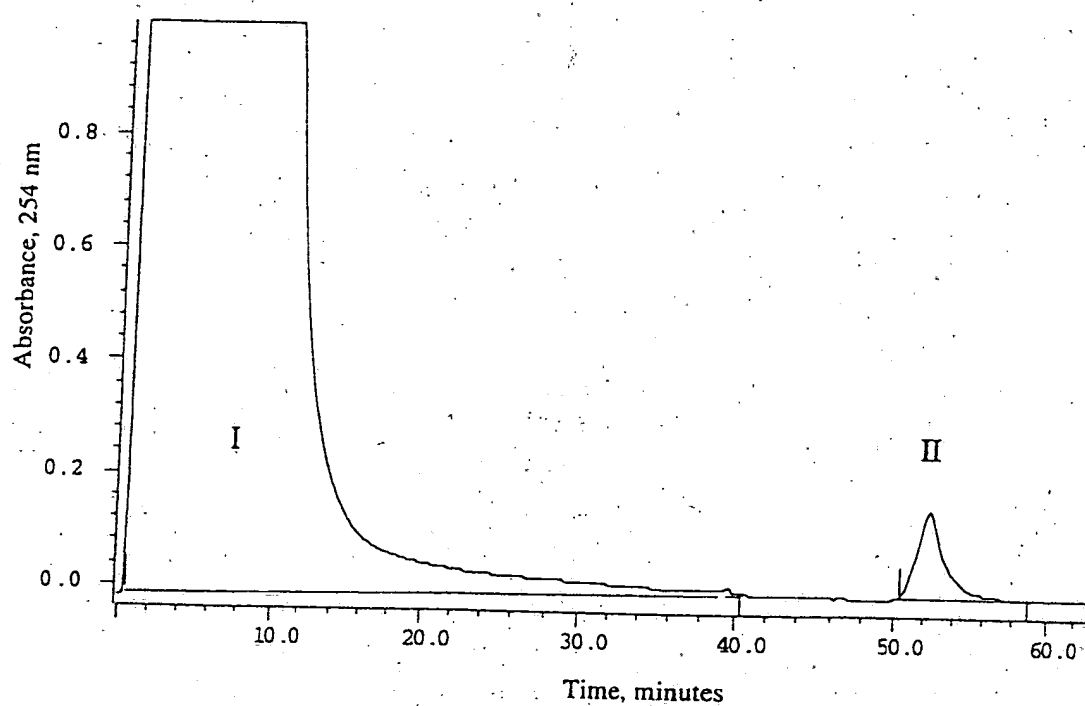


FIGURE 4



Sample: HN6-DHFR expressing E.coli cells (0.54 g) extracted in 4.35 mL
 of 50 mM sodium phosphate; 0.3 M NaCl; 10 mM imidazole pH 7.0
 Column: 3.5 x 1 cm.i.d. Co(II)-carboxymethylaspartate-agarose (Superflow)
 equilibrated with the extraction buffer
 Flow rate: 1 mL per minute (1.25 cm per minute)
 Peak I - non adsorbed material
 Peak II - HAT-DHFR

FIGURE 5

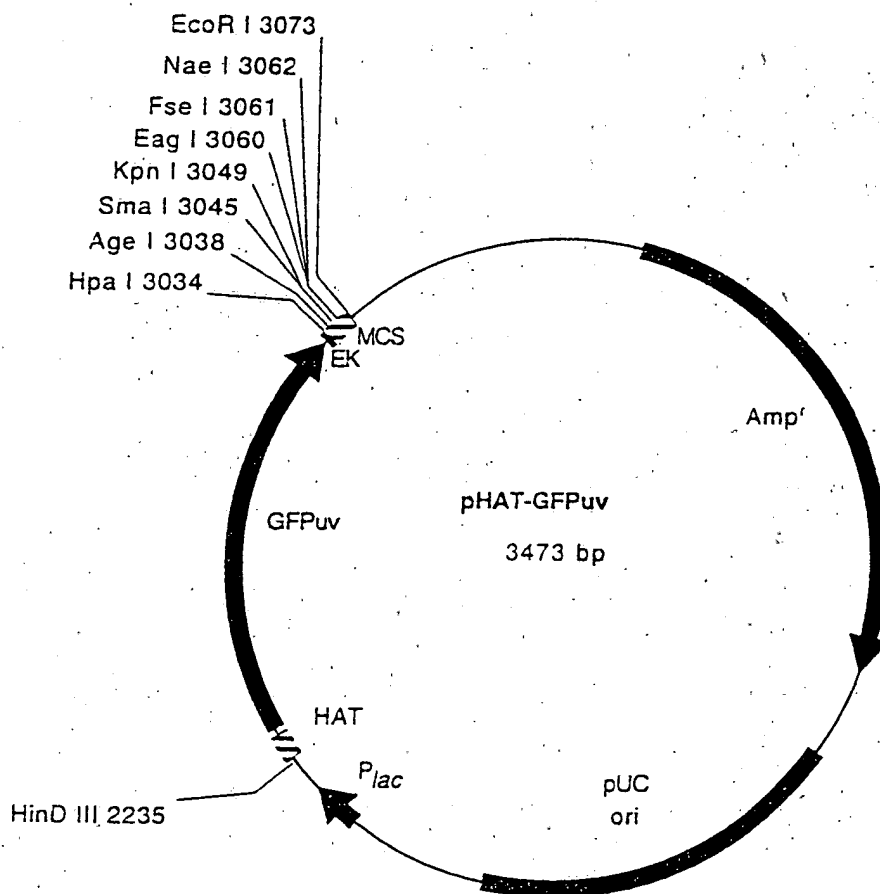


FIGURE 6